

Notice of Allowability

Application No.

10/076,685

Examiner

Hau H. Nguyen

Applicant(s)

CHAMPION ET AL.

Art Unit

2628

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 6/7/2007.
2. ☒ The allowed claim(s) is/are 1-50 and 60-67.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date see attached
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

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Terminal Disclaimer

1. The terminal disclaimer filed on 6/7/2007 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of 7,129,953 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Information Disclosure Statement

2. The information disclosure statements (IDS) submitted on December 12, 2003; February 14, 2004; February 17, 2004; April 19, 2004; June 11, 2004; February 23, 2005; and June 28, ²⁰⁰⁵ Feb 12, 2004, Dec 12, 2003 have been considered by the examiner.

Allowable Subject Matter

3. Claims 1-50, 60-67 are allowed.

Reasons for Allowance

4. The following is an examiner's statement of reasons for allowance:

The prior art taken singly or in combination does not teach or suggest, a checkerboard buffer page system, among other things, comprising

where each data element corresponds to any entry in one of a plurality of buffer pages, *each buffer page having a plurality of entries along a first dimension corresponding to the first order and a plurality of entries along a second dimension corresponding to the second order,*

and where data is stored to memory devices in the first order and retrieved from memory devices in the second order, and where each memory page stores data in multiple locations according to the first order and stores data in multiple locations according to the second order.

where at least two data elements that *consecutive in the first order are stored in parallel* to the memory devices, and where at least two data elements that are *consecutive in the second order are retrieved in parallel* from the memory devices.

The closest prior art, Okuno (U.S. Patent No. 6,105,114) teaches a 2D array of transposition circuit for reading a 2D array in an order different from that for writing.

However, reference Okuno in combination with admitted prior art fails to teach the above-mentioned features.

Conclusion

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hau H. Nguyen whose telephone number is: 571-272-7787. The examiner can normally be reached on MON-FRI from 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kee Tung can be reached on (571) 272-7794.

The fax number for the organization where this application or proceeding is assigned is 571-273-8300.

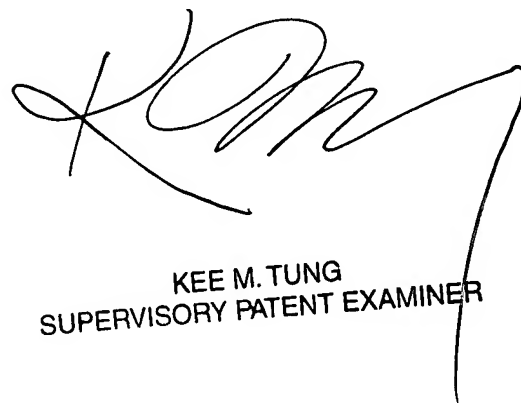
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system contact the Electronic Business Center (EBC) at 866-2 17-9197 (toll-free).

H. Nguyen

7/31/2007



KEE M. TUNG
SUPERVISORY PATENT EXAMINER